

Title (en)

ANTENNA UNIT, ANTENNA ASSEMBLY, MULTI-ANTENNA ASSEMBLY, AND WIRELESS CONNECTION DEVICE

Title (de)

ANTENNENEINHEIT, ANTENNENANORDNUNG, ANORDNUNG MIT MEHREREN ANTENNEN UND VORRICHTUNG FÜR DRAHTLOSE VERBINDUNGEN

Title (fr)

UNITÉ D'ANTENNE, ENSEMBLE ANTENNE, ENSEMBLE MULTI-ANTENNES ET DISPOSITIF DE CONNEXION SANS FIL

Publication

EP 2887456 A1 20150624 (EN)

Application

EP 13829171 A 20130809

Priority

- CN 201210286511 A 20120813
- CN 201210286555 A 20120813
- CN 201210385136 A 20120924
- CN 201210554682 A 20121219
- CN 201310105507 A 20130328
- CN 2013081239 W 20130809

Abstract (en)

The present invention relates to an antenna unit, including a dielectric substrate and an antenna conductor attached to the dielectric substrate, where a maximum gain direction of the antenna unit is consistent with an extension direction of a surface of the dielectric substrate. The present invention also relates to an antenna assembly with the antenna unit, a multi-antenna assembly, and a wireless connection device with the antenna unit, the antenna assembly or the multi-antenna assembly. The antenna unit of the present invention has high directivity, and has advantages of broad bands, high gains, and easy commissioning, so that both the multi-antenna assembly and the wireless connection device have high performance.

IPC 8 full level

H01Q 19/30 (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/42** (2015.01); **H01Q 21/06** (2006.01)

CPC (source: EP US)

H01Q 5/42 (2015.01 - EP US); **H01Q 19/30** (2013.01 - EP US); **H01Q 21/067** (2013.01 - EP US); **H01Q 21/20** (2013.01 - US); **H01Q 1/38** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2887456 A1 20150624; **EP 2887456 A4 20160810**; **EP 2887456 B1 20191016**; US 2015171522 A1 20150618; WO 2014026573 A1 20140220

DOCDB simple family (application)

EP 13829171 A 20130809; CN 2013081239 W 20130809; US 201514621404 A 20150213